Decode it! (Group 1)

Solve the problems below. When you get the answer, go to the appropriate card on the wall. Copy the word on the back in the correct space. When you have finished all seven problems and you have a sentence, bring it to the front so that your teacher can verify it.

|  |  |  |
| --- | --- | --- |
| **Question** | **Your Answer** | **Matching Word** |
| In a **balanced** equation, how many atoms of calcium (Ca) will there be on the left side of the following equation?  Ca + O2 → CaO |  |  |
| What is the Law of Conservation of Matter? |  |  |
| Is the following equation **balanced** or **unbalanced**?  Mg + O2 → 2MgO |  |  |
| The balanced chemical formula for the following expression is:  Cu + S → Cu2S |  |  |
| How many atoms are present IN TOTAL within the following term?  3CaCl2 |  |  |
| The \_\_\_\_\_\_\_\_\_\_\_\_ is the number in front of a compound. |  |  |
| What number represents the subscript in the following term?  3CaCl2 |  |  |

Decode it! (Group 2)

Solve the problems below. When you get the answer, go to the appropriate card on the wall. Copy the word on the back in the correct space. When you have finished all seven problems and you have a sentence, bring it to the front so that your teacher can verify it.

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| --- | --- | --- |
| **Question** | **Your Answer** | **Matching Word** |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| How many **chlorine** **atoms** are present IN TOTAL within the following term? 2CaCl2 |  |  |
| The balanced chemical formula for the following expression is:  Ca + O2 → CaO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| The term \_\_\_\_\_\_\_\_\_\_\_\_ refers to the small number that comes after an element symbol |  |  |
| The balanced chemical formula for the following expression is:  Ca + O2 → CaO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| Is the following equation **balanced** or **unbalanced**?  2Mg + O2 → 2MgO |  |  |
| How many **chlorine** **atoms** are present IN TOTAL within the following term? 2CaCl2 |  |  |
| What number represents the coefficient in the following term?  3CaCl2 |  |  |
| Which Law states that the mass of the reactants equals the mass of the products. |  |  |
| The balanced chemical formula for the following expression is:  Co + S → CoS |  |  |

Decode it! (Group 3)

Solve the problems below. When you get the answer, go to the appropriate card on the wall. Copy the word on the back in the correct space. When you have finished all seven problems and you have a sentence, bring it to the front so that your teacher can verify it.

|  |  |  |
| --- | --- | --- |
| **Question** | **Your Answer** | **Matching Word** |
| How many **chlorine** **atoms** are present IN TOTAL within the following term? 2SCl6 |  |  |
| What is the Law of Conservation of Matter? |  |  |
| The **balanced** chemical formula for the following expression is:  Zn + HCl → ZnCl2 + H2 |  |  |
| True/False: The following expression has the **same** number of calcium atoms on the right side as the left side:  Ca + O2 → 2CaO |  |  |
| The **balanced** chemical formula for the following expression is:  Na + H2O → NaOH + H2 |  |  |
| The \_\_\_\_\_\_\_\_\_\_\_\_ is the number in front of a compound. |  |  |
| What number represents the subscript in the following term?  3CaCl2 |  |  |